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 NEWS
                  Web Page URLs for STN Seminar Schedule - N. America
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         Jul 12
                  resulting in a closer connection to BABS
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         AUG 02
                  IFIPAT/IFIUDB/IFICDB reloaded with new search and display
                  fields
                 CAplus and CA patent records enhanced with European and Japan
 NEWS
         AUG 02
                  Patent Office Classifications
NEWS 6
         AUG 02
                 The Analysis Edition of STN Express with Discover!
                  (Version 7.01 for Windows) now available
                 BIOCOMMERCE: Changes and enhancements to content coverage
NEWS
      7
         AUG 27
                 BIOTECHABS/BIOTECHDS: Two new display fields added for legal
NEWS
         AUG 27
                 status data from INPADOC
                 INPADOC: New family current-awareness alert (SDI) available
NEWS 9
         SEP 01
NEWS 10 SEP 01 New pricing for the Save Answers for SciFinder Wizard within
                 STN Express with Discover!
NEWS 11 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS 12 SEP 14 STN Patent Forum to be held October 13, 2004, in Iselin, NJ
NEWS 13 SEP 27
                 STANDARDS will no longer be available on STN
NEWS 14 SEP 27 SWETSCAN will no longer be available on STN
NEWS EXPRESS JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT
              MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
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NEWS WWW
             CAS World Wide Web Site (general information)
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=> le caplus

LE IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

10614266

For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST

ENTRY SESSION 0.21 0.21

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FILE COVERS 1907 - 29 Sep 2004 VOL 141 ISS 14 FILE LAST UPDATED: 28 Sep 2004 (20040928/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s thionyl chloride

13355 THIONYL

1002844 CHLORIDE

L1 12552 THIONYL CHLORIDE

(THIONYL (W) CHLORIDE)

=> s ll and amine

248178 AMINE

L2 651 L1 AND AMINE

anine

Sochz

=> s 12 and cis

200939 CIS

L3 16 L2 AND CIS

=> s 12 and trans

236643 TRANS

L4 20 L2 AND TRANS

=> s 13 or 14

L5 27 L3 OR L4 Oll + Orcicl = 18

=> s 15 and nataglinide

0 NATAGLINIDE

L6 0 L5 AND NATAGLINIDE

=> s 15 and 4-isopropylbenzyl chloride

4966516 4

634 ISOPROPYLBENZYL

1002844 CHLORIDE

38 4-ISOPROPYLBENZYL CHLORIDE

(4 (W) ISOPROPYLBENZYL (W) CHLORIDE)

```
0 L5 AND 4-ISOPROPYLBENZYL CHLORIDE
 => 15 and carboxylic
 L5 IS NOT A RECOGNIZED COMMAND
 The previous command name entered was not recognized by the system.
 For a list of commands available to you in the current file, enter
 "HELP COMMANDS" at an arrow prompt (=>).
 => s 15 and acid
         3874803 ACID
 L8
               20 L5 AND ACID
 => d 1-20 bib abs 18
      ANSWER 1 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 L8
 AN
      2004:428908 CAPLUS
 DN
      141:7025
      Novel process for the preparation of 4-aryl-3-hydroxymethyl-1-
 TI
      methylpiperidines.
      Reddy, Muddasani Pulla; Chowdary, Nannapaneni Venkaiah
 IN
 PA
      Natco Pharma Limited, India
      PCT Int. Appl., 89 pp.
 SO
      CODEN: PIXXD2
DT
      Patent
LA
      English
FAN.CNT 1
      PATENT NO.
                             KIND
                                                  APPLICATION NO.
                                                                           DATE
                             ----
                                                  -----
          2004043921 A1 (20040527) WO 2003-IN356 20031106
W: AE, AG, AL, AM, AR, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
PΙ
      WO 2004043921
               GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
               LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,
              OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ,
               BY, KG, KZ, MD
          RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
              BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
              MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
              GQ, GW, ML, MR, NE, SN, TD, TG
PRAI IN 2002-MA830
                             Α
                                    20021111
OS
     MARPAT 141:7025
GI
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A novel, improved, and general process for the preparation of 4-aryl-3-hydroxymethyl-1-methylpiperidines (trans-I; X = H, F, Me, OMe) is disclosed in the present invention. 4-(4-Fluorophenyl)-3-hydroxymethyl-1-methylpiperidine is a well-known intermediate in making the anti-depressant drug, paroxetine [(-)-trans -4-p-fluorophenyl-3-(3,4-methylenedioxyphenoxymethyl)piperidine]. The compds. I are prepared from the Mannich salts such as 3-dimethylamino- or 3-(N-methyl-N-benzylamino)-4'-(optionally F, Me, or OMe-substituted) propiophenone hydrochlorides (II.HCl; X = same as above; R = Me, Bn) by conventional methods. The Mannich salts II.HCl are converted into N-methyl-N-[3-[4-(optionally F, Me, or OMe-substituted)phenyl]-3-hydroxy]propylamines (III; R1 = H; X = same as above) and then reacted with Et or Me acrylate to get the corresponding Michael addition products III

(R = CH2CH2CO2R2; R2 = Et, Me; X = same as above). The hydroxy group present in the Michael addition products is converted into a facile leaving group and treated with a strong base to get 4-aryl-N-methylpiperidine-3carboxylates via (IV; X, R2 = same as above) via the intramol. cyclization in good yields. Reduction of the ester group present in these piperidine-3-carboxylates IV gives the title compds. I as crystalline solids. Present process is easily adaptable for com. preparation of the paroxetine intermediate, i.e. 4-(4-fluorophenyl)-3-hydroxymethyl-1-methylpiperidine. Thus, N-demethylation and N-methoxycarbonylation of 4-fluoro- α -(2dimethylaminoethyl) benzyl alc. by Me chloroformate in the presence of K2CO3 in CHCl3 at reflux for 15 h and hydrolysis of the resulting N-methyl-N-carbomethoxy-N-[3-hydroxy-3-(4-fluorophenyl)propyl] amine with KOH in aqueous DMSO at 100° for 6 h gave N-methyl-N-[3-hydroxy-3-(4-fluorophenyl)propyl] amine which underwent Michael addition with Me acrylate in toluene at 60-65° for 7 h to give Me 3-[N-methyl-N-[3-hydroxy-3-(4-fluorophenyl)propyl]amino]propi onate (V). Mesylation of V by mesyl chloride in the presence of Et3N in CH2Cl2 at -5° to 0° for 14-15° gave 3-[N-methyl-N-[3-(methanesulfonyloxy)-3-(4-fluorophenyl)propyl]amino]propi onate which was dissolved in DMF, cooled to -5° to 0°, treated portionwise with NaH over 1 period of 1 h, kept at the same temperature for 43 h, slowly warmed to 25° over 5-6 h, and kept at room temperature for 12 h to give trans-3-carbomethoxy-4-(4-fluorophenyl)-Nmethylpiperidine (VI). VI was reduced by NaBH4 in tert-butanol at reflux for 2 h to give trans-4-(4-fluorophenyl)-3-hydroxymethyl-1methylpiperidine.

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:909303 CAPLUS

DN 140:111315

- TI Design, Synthesis, and Biological Evaluation of Indenoisoquinoline Topoisomerase I Inhibitors Featuring Polyamine Side Chains on the Lactam Nitrogen
- AU Nagarajan, Muthukaman; Xiao, Xiangshu; Antony, Smitha; Kohlhagen, Glenda; Pommier, Yves; Cushman, Mark
- CS Department of Medicinal Chemistry and Molecular Pharmacology, School of Pharmacy and Pharmacal Sciences, Purdue University, West Lafayette, IN, 47907, USA
- SO Journal of Medicinal Chemistry (2003), 46(26), 5712-5724 CODEN: JMCMAR; ISSN: 0022-2623
- PB American Chemical Society
- DT Journal
- LA English
- The indenoisoquinolines are a class of noncamptothecin topoisomerase I AB inhibitors that display significant cytotoxicity in human cancer cell cultures. They offer a number of potential advantages over the camptothecins, including greater chemical stability, formation of more persistent cleavage complexes, and induction of a unique pattern of DNA cleavage sites. Mol. modeling has suggested that substituents on the indenoisoquinoline lactam nitrogen would protrude out of the DNA duplex in the ternary cleavage complex through the major groove. This indicates that relatively large substituents in that location would be tolerated without compromising biol. activity. As a strategy for increasing the potencies and potential therapeutic usefulness of the indenoisoquinolines, a series of compds. was synthesized containing polyamine side chains on the lactam nitrogen. The rationale for the synthesis of these compds. was that the pos. charged ammonium cations would increase DNA affinity through electrostatic binding to the neg. charged DNA backbone, and the polyamines might also facilitate cellular uptake by utilization of polyamine transporters. The key step in the synthesis involved the condensation of

Schiff bases, containing protected amine side chains, with substituted homophthalic anhydrides, to afford cis -3-aryl-4-carboxy-1-isoquinolones. These isoquinolones were then converted to indenoisoquinolines with thionyl chloride Although monoamines were much more potent than the lead compound, no significant increase in potency was observed through incorporation of addnl. amino groups in the side chain. However, one of the monoamine analogs, which features a bis(2-hydroxyethyl)amino group in the side chain, proved to be one of the most cytotoxic indenoisoquinoline synthesized to date, with a GI50 mean-graph midpoint (MGM) of 0.07 μM in the NIH human cancer cell culture screen, and topoisomerase I inhibitory activity comparable to that of camptothecin. The activity of the compds. thus prepared was compared to (4S)-4-ethyl-4-hydroxy-1Hpyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione [(20S)-camptothecin], 2,3-dimethoxy-6-methyl-5H-[1,3]dioxolo[5,6]indeno[1,2-c]isoquinoline-5,12(6H)-dione, 6-(3-aminopropyl)-2,3-dimethoxy-5H-[1,3]dioxolo[5,6]indeno[1,2c]isoquinoline-5,12(6H)-dione monohydrochloride. RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 3 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN L8 AN2003:836829 CAPLUS DN139:323519 Preparation of imidazoarenes as prostaglandin E2 subtype EP4 receptor ΤI antagonists for treatment of IL-6 involved diseases IN Shimojo, Masato; Taniguchi, Kana Pfizer Pharmaceuticals Inc., Japan; Pfizer Inc. PΑ PCT Int. Appl., 427 pp. SO CODEN: PIXXD2 DT Patent LΑ English FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE --------------PΙ WO 2003086371 A2 20031023 WO 2003-IB1310 20030403 WO 2003086371 **A3** 20040603 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, AE, AG, AL, AM, AI, AU, AA, BA, BB, BG, BK, BI, BA, CA, CR, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2003236260 A1 20031225 US 2003-411491 20030410 PRAI US 2002-372364P P 20020412 MARPAT 139:323519 OS GI

^{*} STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The present invention relates to the use of a prostaglandin E2 (PGE2) subtype EP4 receptor ligand in the manufacture of a medicament for the treatment of interleukin 6 (IL-6) involved diseases, such as alc. cirrhosis, amyloidosis, atherosclerosis, cardiac disease, sclerosis, and

organ transplantation reactions (no data). The invention also relates to the assay which comprises culturing peripheral whole blood with a test compound and determining the effect of the compound on PGE2-induced whole blood cells activation. Three hundred eighty title compds. I [wherein Y1-Y4 = N, CH, CL; R1 = H, (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, pyrrolidinyl, amino, etc.; A = (un)substituted 5-6 membered (un) substituted monocyclic (hetero) aromatic ring; B = halo-substituted alkylene, cycloalkylene, alkenylene, alkynylene, alkyleneoxy, etc., optionally substituted with an oxo or alkyl group; W = amino, O, S, bond, etc.; R2 = H, OH, alkyl, alkoxy; Z = 5-12 membered (un) substituted monocyclic or bicyclic (hetero)aryl; L = halo, alkyl, haloalkyl, OH, alkoxy, haloalkoxy, alkylthio, NO2, amino, etc.] were prepared Thus, cycloaddn. of 2-[4-[(3-amino-4,6-dimethyl-2-pyridinyl)amino]phenyl]ethanol (4-step preparation given) with propionyl chloride in toluene provided 2-[4-(2-ethyl-5,7-dimethyl-3H-imidazo[4,5-b]pyridin-3-yl)phenyl]ethyl propionate, which was treated with aqueous LiOH to give the ethanol derivative (86%). Chlorination (90%) using thionyl chloride, conversion to the azide (85%), and Pd/C catalyzed hydrogenation afforded the **amine** (94%). Coupling of the **amine** with p-toluenesulfonyl isocyanate in CH2Cl2 gave II (56%). The latter significantly inhibited IL-6 secretion by PGE2 in ConA-stimulated human peripheral blood mononuclear cells (PBMC).

ANSWER 4 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN L8 AN2003:826230 CAPLUS

DN 140:28185

ΤI Induction of One-Handed Helix Sense in Achiral Poly(N-propargylamides) ΑU

Tabei, Junichi; Nomura, Ryoji; Sanda, Fumio; Masuda, Toshio

Department of Polymer Chemistry, Graduate School of Engineering, Kyoto CS University, Kyoto, 606-8501, Japan SO

Macromolecules (2003), 36(23), 8603-8608 CODEN: MAMOBX; ISSN: 0024-9297

PB American Chemical Society

DTJournal

LΑ English

AB

Achiral N-propargylamides, i.e., N-propargyl-3-methylbutanamide (1), N-propargyl-2-ethylbutanamide (2), and N-propargyl-3,3-dimethylbutanamide (3), were polymerized with (nbd)Rh+[η 6-C6H5B-(C6H5)3] to afford polymers with moderate mol. wts. (Mn = 6000-22000) in good yields. The 1H NMR and UV-vis spectra demonstrated that the polymers, poly(1)-poly(3), have stereoregular structures (cis = 100%) and equally populated right- and left-handed helical conformation. A predominant helix sense was induced in these polymers by the addition of chiral alcs. or amine, which was confirmed by CD and UV-vis spectroscopies. 1H NMR and CD spectroscopic studies strongly suggested that the poly(N-propargylamides) interacted with the chiral alcs. by hydrogen bonding at the amide groups of the polymer side chain. Chiral terpenes could also induce single-handed helical conformation. It is likely that hydrophobic interaction led to the one-handed helical conformation in the case of the chiral terpenes because the addition of n-hexane decreased the CD

THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 42 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

2003:180273 CAPLUS AN

Synthesis of (5S,6R)-4-tert-butyloxycarbonyl-5,6-diphenyl-2,3,5,6-ΤI tetrahydro-1,4-oxazin-2-one ΑU

Brant, Jacilynn A.; Oguz, Umut; McLaughlin, Mark L.

Department of Chemistry, Frostburg State University, Frostburg, MD, 21532, CS

SO Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United

```
States, March 23-27, 2003 (2003), CHED-554 Publisher: American Chemical
      Society, Washington, D. C.
      CODEN: 69DSA4
 DT
      Conference; Meeting Abstract
 LA
      English
 AΒ
      The target mol., (5S,6R)-4-tert-butyloxycarbonyl-5,6-diphenyl-2,3,5,6-
      tetrahydro-1,4-oxazin-2-one, can be used for the synthesis of a very large
      variety of amino acids. Our group is using these amino acids in the
      synthesis of constrained dipeptides that can function as enzyme inhibitors
      and the formation of unnaturally stable extended conformations. The first
      step of the synthesis was a syn hydroxylation of trans
      -1,2-diphenylethylene using AD-mix-\beta.
                                              Thionyl
      chloride was added to the diol and the cyclic sulfite was oxidized
      to the cyclic sulfate. Nucleophilic substitution with sodium azide
      occurred and hydrogenolysis of the resulting compound was conducted using
      10% palladium on charcoal and 40 psi of H2 in a Paar Hydrogenator to
     produce the homochiral hydroxyethylamine. The 2-amino-1,2-diphenylethanol
     and ethylglyoxalate were coupled via reductive amination in the presence
     of triacetoxyborohydride. The amine nitrogen was protected by
     Boc anhydride. Cyclization of the mol. occurred during a reaction with
     p-toluenesulfonic acid to yield the target mol.
ГŞ
     ANSWER 6 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN
     2003:173562 CAPLUS
DN
     138:205498
TI
     Photoresponsive polymer, built-up type diacetylene polymer, crystals of
     ammonium carboxylates, and processes for production of them
IN
     Matsumoto, Akikazu; Odani, Toru
PA
     Japan Science and Technology Corporation, Japan
SO
     PCT Int. Appl., 113 pp.
     CODEN: PIXXD2
DT
     Patent
LΑ
     Japanese
FAN.CNT 1
     PATENT NO.
                       KIND
                               DATE
                                           APPLICATION NO.
                                                                  DATE
                        ____
                                            -----
     WO 2003018525
PΙ
                         A1
                                20030306
                                           WO 2002-JP8559
                                                                   20020826
     WO 2003018525
                         B1
                                20030918
         W: US
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT,
             LU, MC, NL, PT, SE, SK, TR
     JP 2003327558
                         A2
                                20031119
                                           JP 2002-134763
                                                                   20020509
     JP 2003146944
                          A2
                                20030521
                                           JP 2002-201880
                                                                  20020710
     EP 1431266
                                           EP 2002-762855
                         A1
                                20040623
                                                                  20020826
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, FI, CY, TR, BG, CZ, EE, SK
PRAI JP 2001-257028
                         Α
                               20010827
     JP 2002-134763
                         Α
                                20020509
     JP 2002-201880
                         Α
                                20020710
     WO 2002-JP8559
                         W
                               20020826
OS
     MARPAT 138:205498
    Crystals of ammonium carboxylates are produced by mixing crystals of a
AB7
     carboxyl-bearing conjugated diene such as muconic acid with at
    least one compound selected from among amines and ammonia in the absence of
    a liquid medium. The use of an amine having a bivalent group
    represented by the general formula ArN:NAr' (wherein Ar and Ar' are each
    independently a bivalent aromatic hydrocarbon group) as the above
    amine component gives a novel photoresponsive polymer which
    comprises layer crystals of a carboxyl-bearing conjugated diene polymer
    and the amine intercalated thereinto. Further, a built-up type
    diacetylene polymer is obtained by subjecting crystals of an ammonium
```

carboxylate prepared from a carboxylic acid and an amine

WO 2001-GB2698

MARPAT 136:85816

OS

GI

W

20010619

, at least either of which is a diacetylene derivative, to irradiation with light or heating. Thus, (Z,Z)-muconic acid and benzylamine were reacted to give muconic acid benzylammonium, which was polymerized by UV irradiation to give 2,5-polymuconic acid benzylammonium, which was thermally decomposed to give polymuconic acid, which was reacted with benzylamine to give benzylamine-intercalated polymuconic acid. RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 7 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN L8AN2002:10463 CAPLUS DN136:85816 Synthesis of guanidine derivatives of quinazoline and quinoline for use in ΤI the treatment of autoimmune diseases IN Poyser, Jeffrey Philip Astrazeneca AB, Swed.; Astrazeneca UK Limited PASO PCT Int. Appl., 150 pp. CODEN: PIXXD2 DTPatent LA English FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. -------------------PΙ WO 2002000644 A1 20020103 WO 2001-GB2698 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG EP 1296973 A1 20030402 EP 2001~940757 20010619 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR PRAI GB 2000-15376 Α 20000624 GB 2000-30989 Α 20001219

Title compds. I [Q1 = (un)substituted quinazolinyl and quinazolinyl-like AΒ ring; R2 = H, alkyl; R3 = H, alkyl, or R2 and R3 together form a CH2, (CH2)2 or (CH2)3 group; R5 = H, alkyl, or R5 and R6 together with the N atom to which they are attached form a 4- to 7-membered heterocyclic ring optionally containing a further heteroatom selected from 0, N and S, provided that one of the pairs of groups R2 and R4 together, R3 and R4 together and R5 and R4 together forms a bond; Q2 = aryl, arylalkyl, arylcycloalkyl, heteroaryl, heteroarylalkyl or heteroarylcycloalkyl; R6 = (un) substituted group selected from alkenyl, alkynyl, cycloalkyl and cycloalkenyl, or R6 is a substituted alkyl group, and wherein adjacent carbon atoms in any alkylene chain within a R6 group are optionally separated by the insertion into the chain of a group selected from 0, S, SO, SO2, amino, CO, etc.; or a tautomer thereof] were prepared Over 100 synthetic examples were provided. E.g., Et 3-methoxy-4-((N-methylpiperidin-4-yl)methoxy)benzoate (preparation given) was nitrated (CH2Cl2, TFA, HNO3, 0°C), the nitro group reduced (MeOH, Pt/C, 1.8 atm H2), the product condensed/cyclized (2-methoxyethanol, 115°C, 2 h) and treated with thionyl chloride to give 4-chloro-6-methoxy-7-((N-methylpiperidin-4yl) methoxy) quinazoline. This intermediate was treated with 4-bromo-2-fluorophenol (DMF, K2CO3, 100°C, 2.5 h), ammonia in isopropanol (2M, 130°C, 16 h) to give the 4-aminoquinazoline derivative which was reacted with 2-chloro-6-methylphenylisothiocyanate (DMF, NaH) to afford 1-(2-chloro-6-methylphenyl)-3-[6-methoxy-7-((N-methylpiperidin-4yl) methoxy) quinazolin-4-yl] thiourea. The thiourea was treated with 2-aminoethanol (CHCl3/MeOH, HgO, 2 h) to give example compound II. I are used in the prevention or treatment of T cell mediated diseases.

ΙI

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L8 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1995:797785 CAPLUS
- DN 124:29833
- TI Synthesis and Reactivity of N-[Bis(trimethylsilyl)methyl]heterocumulenes AU Barbaro, Gaetano; Battaglia, Arturo; Giorgianni, Patrizia; Guerrini, Andrea; Seconi, Giancarlo
- CS Istituto CNR dei Composti del Carbonio Contenenti Eteroatomi, Bologna, 40129, Italy

GΙ

AB

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SO Journal of Organic Chemistry (1995), 60(19), 6032-9

CODEN: JOCEAH; ISSN: 0022-3263

PB American Chemical Society

DT Journal

LA English

OS CASREACT 124:29833
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Ι

A number of N-heterocumulenes bearing the (Me3Si)2CH (BSM) substituent adjacent to the terminal N atom of the heterocumulene function, BSM-N:C:O (2), BSM-N:C:S (3), BSM-N:C:NR (4: R = BSM; 5: R = C6H5), BSM-N:C:CR1R2 (9a: R1 = R2 = C6H5; 9b: R1 = H, R2 = SiMe3; 10: R1 = R2 = CH3; 12: R1 = H; R2 = CH3), and BSM-N:S:O (14), were synthesized. The synthetic utility of the BSM-N-substituted heterocumulenes was explored through the creation of a carbanion center at the α position relative to N. In particular, the following reactions were studied: (i) the nucleophilic addition of MeLi to compds. 2 and 5, (ii) the MeLi-induced deprotonation of ketene imines 9a,b (this study includes the study of the regiochem. output of the addition of electrophiles (H2O, MeI, Me2CHI) to the resulting 1,3-dipoles to give e.g. Ph2C:C:NCMe(SiMe3)2); and (iii) the TBAF-induced desilylation of compds. 2 and 9a followed by reaction with benzaldehyde to give e.g. cis- and trans-I.

L8 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1994:558009 CAPLUS

DN 121:158009

TI Synthesis and transacylating reactivity of β -cyclodextrin ethylenediamines

AU Beeson, John C.; Czarnik, Anthony W.

CS Dep. Chem., Ohio State Univ., Columbus, OH, 43210, USA

SO Bioorganic & Medicinal Chemistry (1994), 2(4), 297-303 CODEN: BMECEP; ISSN: 0968-0896

DT Journal

LA\ English

AΒ

The synthesis of the ethylenediamine-connected cyclodextrin dimer is reported, together with the synthesis of several reference cyclodextrinylamines. Each compound displayed enhanced transacylation or transphosphorylation of activated substrates, with the primary amine-bearing monocyclodextrin compound showing the greatest activity. No special rate advantage was observed for this cyclodextrin dimer, although such effects do exist in other cyclodextrin dimers reported previously.

- L8 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1994:557423 CAPLUS
- DN 121:157423
- TI Process for the stereospecific synthesis of azetidinones
- IN Thiruvengadam, Tiruvettipuram K.; Tann, Chou-Hong; Lee, Junning; McAllister, Timothy; Sudhakar, Anantha
- PA Schering Corp., USA
- SO U.S., 15 pp. Cont.-in-part of PCT Ser. No. WO92US#5972.

10614266

LA	CODEN: USXXAM Patent English CNT 5			
	PATENT NO.	KIND DATE	APPLICATION NO.	DATE
PI	US 5306817 CA 2114007	A 19940426	US 1992-962768 CA 1992-2114007 WO 1992-US5972	19921019
	WO 9302048	A1 19930204	WO 1992-US5972	19920721
	W: AU, BB, BG,	BR, CA, CS, FI,	HU, JP, KP, KR, LK, MG,	MN, MW, NO,
	PL, RO, RU,	SD, US	an an	
	CF. CG. CL.	CM GA GN MI.	GB, GR, IT, LU, MC, NL, MR, SN, TD, TG	
	AU 9223980	A1 19930223	AII 1992_22000	10020727
	AU 658441	B2 19950413	AU 1992-23980 ZA 1992-5487 EP 1992-916790	19920/21
	ZA 9205487	A 19930331	ZA 1992-5487	19920721
	EP 596015	A1 19940511	EP 1992-916790	19920721
	EP 596015	B1 19971001		10020721
	R: AI, BE, CH,	DE, DK, ES, FR,	GB, GR, IT, LI, LU, MC.	NL. SE
	JP 06508637	T2 19940929	JP 1992-502964	19920721
	JP 2525125	B2 19960814		
	HU 67341	A2 19950328	HU 1994-185 AT 1992-916790	19920721
	AT 158789	E 19971015	AT 1992-916790	19920721
	ES 2107548	T3 19971201	ES 1992-916790	19920721
	CN 1069024	A 19930217	CN 1992-108760	19920722
	LV 10429	B 19950820	LV 1992-550	19921229
	LT 3369	B 19950825	LT 1992-261 US 1994-179008	19921229
	NO 9400221	A 20000725	US 1994-179008	19940107
	NO 9400221	A 19940121	NO 1994-221	19940121
DDAT	US 1991-734426	A 19961001	US 1994-265466	19940623
LIVAT	IIC 1991-734426	B2 19910723		
	US 1991-734652 WO 1992-US5972	B2 19910723 A 10020721		
	US 1992-962768	A 19920/21		
	US 1994-179008	A3 19921019 A2 19940107		
os	CASREACT 121:157423		172	
GI		, .mm.r.wr 151:13/4	: 4 J	

$$R^2D$$
 AR^1
 NR
 NR
 I
 O
 I
 I

AB

This invention provides an improved process for producing azetidinones. More particularly, this invention provides the steps of producing an trans-azetidinone represented by formula I or II from a carboxylic acid R2-D-CH2-COOH, an aldehyde R1-A-CHO and an amine RNH2, by the steps of: (a1) converting a carboxylic acid to the corresponding acid chloride; (b1) deprotonating a chiral oxazolidinone and treating the resulting anion with the product of step (a1); (c1) enolizing the product of step (b1) and condensing with the aldehyde; (d1) hydrolyzing the product of step (c1); (e1) condensing the product of step (d1) with the amine; and (f1) cyclizing the product of step (e1). Alternatively, the process comprises (a2) enolizing the product of step (b1) and condensing, in the presence of a Lewis acid, with a Schiff's base prepared from the aldehyde and the amine; and (b2) cyclizing the product of step (a2).

FAN.CNT 1

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L8
      ANSWER 11 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN
      1991:5789 CAPLUS
 DN
      114:5789
 ΤI
      A new route to N-monosubstituted thioamides utilizing
      phosphoramidothionates as reagents for the thioamidation of carboxylic
 ΑU
      DeBruin, Kenneth E.; Boros, Eric E.
      Dep. Chem., Colorado State Univ., Fort Collins, CO, 80523, USA
 CS
      Journal of Organic Chemistry (1990), 55(25), 6091-8
      CODEN: JOCEAH; ISSN: 0022-3263
 DT
      Journal
 LA
      English
 os
      CASREACT 114:5789
      RCSNHR1 (R = alkyl, \alpha, \beta-alkenyl, cycloalkylalkyl, Ph, alkyl
 AΒ
      with remote keto, ester, or amido groups; R1 = Me, PhCH2, ally1) were
      synthesized in 50-80% yield from the corresponding RCOCl and R1NH2 with
      (MeO) 2P(S) Cl, which derivatizes the amine, forms the carboxamide
      bond, and thionates the carbonyl by an intramol. rearrangement.
      phosphoryl group is then cleaved from the resulting thiocarbonyl
      phosphoryl mixed imide by a simple hydrolysis. Competing thionation of
      remote carbonyl groups or epimerization of a chiral center containing a proton
      \alpha to a ketone group was not observed
     ANSWER 12 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
L8
AN
      1981:425364 CAPLUS
DN
      95:25364
     Alkaloid synthesis via intramolecular ene reactions. 1. Application to
TI
      (±)-crinane
ΑU
     Keck, Gary E.; Webb, Robert R., II
CS
     Dep. Chem., Univ. Utah, Salt Lake City, UT, 84112, USA
     Journal of the American Chemical Society (1981), 103(11), 3173-7
SO
     CODEN: JACSAT; ISSN: 0002-7863
DT
     Journal
LA
     English
     For diagram(s), see printed CA Issue.
GĮ
AH/
     A general approach to the cis-fused octahydroindole skeleton of
     representative Amaryllidaceae alkaloids is described. A key feature of
     the approach is the intramol. ene reaction of an acylnitroso olefin to
     give ene product I, corresponding formally to annulation of a 5 membered
     N-containing ring onto a six-membered carbocycle. The total synthesis of
     (\pm)-crinan (II), which contains the basic octahydroindole nucleus, is
     described. Ene product I, obtained from thermal unraveling and
     concomitant reaction of protected nitroso olefin III, was converted, in 3
     reductive steps, to octahydroindole IV. Amine IV, thus
     obtained, is cyclized via conventional Pictet-Spengler conditions or by
     exposure to Eschenmoser's salt to give II.
/L8
     ANSWER 13 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
     1981:424373 CAPLUS
AN
     95:24373
DN
     Optically active 3-substituted 2-(2',2'-dihalovinyl)-cyclopropane-1-
TI
     carboxylic acids and their derivatives; 4-(2',2',2'-trihaloethyl)-
     cyclobutane-1-sulfonic acid salts
    Dingwall, John Grey; Greuter, Hans; Martin, Pierre; Ackermann, Peter;
IN
     Gsell, Laurenz
PΑ
     Ciba-Geigy A.-G., Switz.
     Eur. Pat. Appl., 43 pp.
SO
     CODEN: EPXXDW
DT
     Patent
LA
    German
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	PA'	TENT NO.			KIND		DATE	A	PΙ	PLICATION NO.	•	DATE
PI	ΕP	12722 12722					19800625	E	 P	1979-810176		19791210
							19811209					
		R: AT,	ΒE,	CH,	DE,	FR,	GB, IT,	NL,	SE	E		
	FΙ	7903891 151930			Α		19800616	F	I	1979-3891		19791212
	DD	151930			С		19811111	DI	D	1979-217653		19791213
		1136636			A1		19821130	CZ	A	1979-341786		19791213
		7905335					19800616	DI	K	1979-5335		19791214
		160546					19910325					
		160546			C		19910930					
		7904102			Α		19800617	NO	Э	1979-4102		19791214
		150957			В		19841008					
		150957			С		19850116					
		55085541			A2		19800627	JI	5	1979-161703		19791214
		59032455			B4		19840809					
		7908212			Α		19800826	BF	₹	1979-8212		19791214
		214680			P		19820528	CS		1979-8819		19791214
		58963			A1		19830930	II		1979-58963		19791214
		28149			0		19831128			1979-CI1998		19791214
		184619			В		19840928					
		487505			A1		19801216	ES	3	1979-487505		19791215
		4299967			Α		19811110	US	3	1979-103983		19791217
					Α		19801231	ZA	1	1979-6855		19791218
		8002540			Α		19800617	NO)	1980-2540		19800827
		150240			В		19840604					
					С		19840912					
	US	4335057			A		19820615	US	;	1980-219803		19801224
PRAI	CH	1978-1278	4				19781215					13001224
/		1979-1039					19791217					
AB	Opt	ically ac	tive	3,3	-dim	eth	yl-substi	tuted	l f	title acids	(halo =	bromo or
	chl	oro in ea	ch)	and	carb	оху	late este	rs an	d	sulfonate a	nine cal	ta

Optically active 3,3-dimethyl-substituted title acids (halo = bromo or chloro in each) and carboxylate esters and sulfonate amine salts were prepared Thus, racemic 2-chloro-3,3-dimethyl-4-(2,2,2-trichloroethyl) cyclobutanone (racemic I) treated with (-)-PhCHMeNH2 (II) and SO2-H2O in MeCN gave the II salt of (±)-2-chloro-1-hydroxy-3,3-dimethyl-4-(2,2,2-trichloroethyl)-1-cyclobutanesulfonic acid, treatment of which with EtOH-HCl gave (+)-I. Treatment of (+)-I with 2.5 N NaOH at 0°, then at room temperature, gave an 83:17 mixture of cis,trans-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylic acid (cis,trans-III), from which purified (+)-cis-III was obtained.

L8 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1980:633342 CAPLUS

DN 93:233342

TI Structure and behavior of spermidine siderophores

AU Peterson, T.; Falk, Karl Erik; Leong, Sally A.; Klein, Melvin P.; Neilands, J. B.

CS Dep. Biochem., Univ. California, Berkeley, CA, 94720, USA

Journal of the American Chemical Society (1980), 102(26), 7715-18 CODEN: JACSAT; ISSN: 0002-7863

DT Journal

LA English

L8

The proposed structures of the microbial iron transport compds.

(siderophores) agrobactin and parabactin were confirmed by synthesis of a hydrolysis product, agrobactin A. The unusual stability of the 2-oxazoline ring of the siderophores was shown to arise from electronic effects contributed by the o-hydroxy substituent. The duplicate NMR spectra of agrobactin and parabactin were demonstrated to originate from cis-trans isomerization around the tertiary amide bonds.

ANSWER 15 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1980:6546 CAPLUS

DN 92:6546

TI Methods and intermediates for preparing cis-4-oxoazetidine intermediates

IN Gleason, John G.; Holden, Kenneth G.; Huffman, William F.

PA Smithkline Corp., USA

SO U.S., 20 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 3

FAN.	CNT 3				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4166816	A	19790904	US 1977-821386	19770803
	ZA 7602265	Α	19770427	ZA 1976-2265	19760414
	BE 841234	A1	19761028	BE 1976-166530	19760428
	GB 1553430	Α	19790926	GB 1979-991	19760505
	US 4072674	A	19780207	US 1976-696094	19760614
	US 4257947	Α	19810324	US 1979-20293	19790314
	CH 624670	Α	19810814	CH 1980-3792	19800514
	CH 627475	A	19820115	CH 1980-3793	19800514
	DK 8003003	Α	19800711	DK 1980-3003	19800711
	DK 8003005	Α	19800711	DK 1980-3005	19800711
	DK 8003008	A	19800711	DK 1980-3008	19800711
PRAI	US 1975-574225		19750505		17000711
	US 1975-626686		19751029		
	US 1976-696094		19760614		
	DK 1976-1947		19760430		
	CH 1976-5572		19760504		
	GB 1976-15246		19760505		
	US 1977-821386		19770803		
GI					

Ι

III

The reaction of RCH2COX (R = N3, acylamino; X = Br, Cl, CF3CO2) with R2N:CHCO2R1 [R1 = alkyl, PhCH2, MeOC6H4CH2, CH2CCl3; 2,4-(MeO)2C6H3CH2, 4-MeOC6H4CH2, Ph2CH, substituted benzhydryl] gave the resp. azetidinones I, which were converted to isocephems such as II; II was N-acylated [(2-thienyl)acetyl chloride] and then saponified to give a compound with bactericidal activity. The reaction product of N3CH2CO2H with 2,4-(MeO)2C6H3N:CHCO2Me was converted to I [R = NHCO2CMe3, R1 = Me, R2 = 2,4-(MeO)2C6H3CH2] which was debenzylated, the product was reduced to the alc. analog, the latter was O-tosylated; the tosylate product was treated with NaI and 4-MeOC6H4CH2SH to give a sulfide, the sulfide was converted

to mercaptan III, and the cycloaddn. reaction of III with BrCH2COCO2CH2CCl3 yielded isocepham IV. IV was treated with MeSO2Cl, and the isocephem product was deprotected to give II.

L8 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1979:575078 CAPLUS

DN 91:175078

1,9-Dihydroxyoctahydrophenanthrenes, 1-hydroxyoctahydrophenanthren-9-ones, and their derivatives

IN Althuis, Thomas Henry; Harbert, Charles Armon; Johnson, Michael Ross; Melvin, Lawrence Sherman, Jr.

PA Pfizer Inc., USA

SO Ger. Offen., 58 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.	CNT 1 PATENT NO.	KTIM				
	PAIENI NO.	KIND	DATE	A.	PPLICATION NO.	DATE
PI	DE 2849224	A1	19790517	D	E 1978-2849224	19781113
	DE 2849224	C2	19840405			17/01113
	US 4188495	Α	19800212	U	S 1977-851503	19771114
	DK 7804147	Α	19790515	DI	K 1978-4147	19780919
	CA 1097668	A1	19810317	CZ	A 1978-314035	19781024
	GB 2007665	Α	19790523	GI	3 1978-43558	19781107
	GB 2007665	B2	19820818			
	GB 2078720	Α	19820113	GI	3 1981-14313	19781107
	GB 2078720	B2	19820811			
	GB 2078721	Α	19820113	GI	3 1981-14314	19781107
	GB 2078721	B2	19820811			
	GB 2079269	A	19820120	GE	3 1981-14315	19781107
	GB 2079269	B2	19830216			
	BE 871907	A1	19790510		E 1978-191647	19781110
	SE 7811653	A	19790515	SE	E 1978-11653	19781110
	SE 430983	В	19831227			
	SE 430983 FI 7803456	C	19840405			
	FI 7003456 FI 71120	A	19790515	FI	1978-3456	19781113
	FI 71120 FI 71120	B C	19860814			
	AU 7841521	A1	19861124	7. 7.	. 1050	
	AU 509680	B2	19790524	AU	1978-41521	19781113
	JP 54084562	A2	19800522	-	1000 10000	
	JP 57057015	B4	19790705 19821202	JP	1978-139758	19781113
	FR 2411821	A1	19790713	מפ	1070 21000	
	FR 2411821	B1	19820205	FR	1978-31980	19781113
	ES 475040	Al	19791201	FC	1979 475040	4050444
	AT 7808120	A	19800115		1978-475040 1978-8120	19781113
	AT 358024	В	19800811	A.	1978-8120	19781113
	IL 55930	A1	19821130	TT.	1978-55930	10701110
	CH 635813	A	19830429		1978-11664	19781113
	NL 7811235	A	19790516		1978-11235	19781113 19781114
	NL 180206	В	19860818		1570 11255	19/01114
	NL 180206	С	19870116			
	FR 2414035	Al	19790803	FR	1979-8769	19790406
	FR 2414035	B1	19831209		== : 5	17/70406
	US 4237133	Α	19801202	US	1979-78473	19790924
	US 4268692	Α	19810519		1979-78475	19790924
	US 4268523	Α	19810519		1979-78476	19790924
	US 4270005	Α	19810526		1979-78474	19790924
	AT 7907838	Α	19810415		1979-7838	19791212
	AT 364809	В	19811125			10/01412
	US 4310529	A	19820112	US	1980-218712	19801222

	US 4310668	A	19820112	US	1980-218966	19801222				
	US 4310669	Α	19820112		1980-219319	19801222				
	US 4341906	Α	19820727		1980-219320	19801222				
	JP 57031634	A2	19820220		1981-70593	19810511				
	JP 57031635	A2	19820220		1981-70594	19810511				
	JP 57031636	A2	19820220		1981-70595	19810511				
	DK 8804632	Α	19880818		1988-4632	19880818				
	DK 8804633	A	19880818		1988-4633	19880818				
PRAI	US 1977-851503		19771114			13000010				
	GB 1978-43558		19781107							
	AT 1978-8120		19781113							
	JP 1978-139758		19781113							
	US 1979-78474		19790924							
	US 1979-78475		19790924							
	US 1979-78476		19790924							
OS	CASREACT 91:1750	78								
GI	For diagram(s),	see printe	d CA Issue.							
AB										

[R = H, Me, pyridyl, piperidyl, Ph, Cl- or FC6H4, R5 (R6 = H, Ph, Cl- or FC6H4; n = 1-5; m = 0-4; n + m ≥5); R1 = H, PhCH2, Bz, C1-5 alkanoyl, optionally ω -substituted with an open-chain or cyclic **amine**; R2 = H, C1-6 alkanoyl, Bz; R3 = H, Me, Et; R4 = H, C16 alkyl, PhCH2; Z = C1-9alkylene, Z1Z2Z3 (Z1,Z3 = C1-9 alkylene, [C atoms in Z1 and Z3 \leq 9, Z2 = 0, S, S0, S02)], 2-hydroxyoctahydrophenanthrenones II (R's and Z the same), and 2 hexahydrophenanthrenones III (R's and Z the same), useful as analgesics, antihypertensives, tranquilizers, diuretics, immunosuppressants, antisecretory agents, and in reducing intraocular pressure in glaucoma, were prepared Thus, 3,5-(MeO)2C6H3CH2OH was converted in 5 steps to tetralone IV (R7 = R8 = H) with individual yields of 86, 50, 49, 96, and 74%, resp. Dropping IV (R7 = R8 = H) in HCO2Et into 50% NaH gave 94% IV (R7R8 = CHOH) which underwent Michael addition with MeCOCH: CH2 to give 33.5% IV (R7 = CHO, R8 = CH2CH2COMe). This was cyclized with 2N KOH in MeOH to give 50% III [R = CHMe(CH2)3Ph, R1 = CH2Ph, R3 = R4 = Me, Z = O] which, on Birch reduction, gave 56% trans-II (R's and Z the same). This was reduced with NaBH4 to give 56.5% trans-I [R = CHMe(CH2)3Ph, R1 = R2 = H, R3 = R4 = Me, Z = O, 9β]. Analgesic activity of I and II was determined by 4 standard tests.

ANSWER 17 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN L8

AN1977:567762 CAPLUS

DN 87:167762

ΤI Cinnamic acid amides

IN Grivsky, Eugene

PAWellcome Foundation Ltd., UK

SO Ger. Offen., 34 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2704365 GB 1976-4168		19770804 19760203		

M AB

I [R = F, Cl, Br, iodo, CF3; Rl = H, alkyl or cycloalkyl (e.g., cyclopropyl, Me2CH, Et)] (42 in all) were prepared by reaction of the corresponding trans-cinnamoyl chloride and amine.

Test data for several of the compds. as antispasmodics were given.

L8 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1969:69235 CAPLUS

DN 70:69235

TI Surface oxidation and treatment of polymers

IN Caldwell, John R.; Dannelly, Clarence C.

PA Eastman Kodak Co.

SO U.S., 5 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

The surface of a hydrophobic polymer substrate is placed in contact with a metal salt oxidation catalyst and oxidized with an O-containing gas or a peroxy compound to give an oxidized surface which, after cleaning, has sites for the formation of graft polymers. The cleaned surface can be further treated to contain acid chloride groups and may then also be treated with an amine or alc. Thus, 10 g. polypropylene (I) woven fabric was dipped into a solution of 0.0001% Mn pelargonate in PhMe and dried. The fabric was heated to 90° in a 10% solution of H2O2 for 10 min., and dried, and had a modified surface consisting of chemical bound carboxyl groups. The fabric was placed in a boiling 10% solution of SOC12 in 1,4-dioxane (II) for 30 min., dried, and further modified by immersion in a II solution of hexamethylenetetramine. The fabric obtained was readily dyeable with acid wool, acetate, and metal-chelated dyes. A sample of I powder was treated with MnCl2, oxidized by heating in air, treated with allylamine, and further treated with acrylic acid in the presence of a free-radical initiator to give molded articles which were readily dyeable and were adherent to modified rubber and neoprene adhesives. I was also oxidized in the presence of Co stearate or Co acetate, treated with ethylenediamine, and modified with MeOH, and sorbitol. Similar treatments were carried out on polyethylene, a propylene-Me acrylate copolymer, an ethylene-vinyl acetate copolymer, a terephthalic acid-trans-cyclohexane-1,4-dimethanol copolymer, a terephthalic acid-ethylene glycol copolymer, nylon 66, a polyurethane obtained from hexamethylene diisocyanate and 1,4-cyclohexane-dimethanol, and a bisphenol A polycarbonate using the materials mentioned or Cu pelargonate, ClCH2CH2Cl, propylenediamine, and diethylenetriamine, and the products were modified with glycerol, a polymeric glycol, triethylene glycol, and tetraethylene glycol.

L8 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1962:448918 CAPLUS

DN 57:48918

OREF 57:9685c-i

TI Stereochemistry of bicyclo[3.3.0]octane. I. cis
-Bicyclo[3.3.0]octane-2-carboxylic acids and -2-amines

AU Granger, Robert; Nau, Pierre; Nau, Josette

CS Fac. Pharm. Montpellier

SO Bulletin de la Societe Chimique de France (1958) 1441-6 CODEN: BSCFAS; ISSN: 0037-8968

DT Journal

LA Unavailable

Mu

OREF 55:18796e-i

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os
      CASREACT 57:48918
      cf. CA 53, 16996g; 55, 5376g. cis-cis
 AΒ
      -Bicyclo[3.3.0]octane-2-carboxylic acid (I) is prepared from
      cis-bicyclo[3.3.0]octan-2-one (II) via a bicyclooctene-2-
      carboxylic acid. The cis-trans acid
      is obtained by epimerization of the cis-cis
      acid. cis-cis- and cis-
      trans-Bicyclo[3.3.0]octyl-2-amines resulted from the Schmidt
      reaction on each of the acids. Nitric acid oxidation of
      cis-hydrindan-5-ol at 40° yielded cis
      -cylopentane-1-carboxylic-2-(\beta-propionic acid) (III), m.
      98-9°, in 60% yield. Dry distillation of III at 280-300° 2 hrs.
      and at 340-50° 30 min. gave II, b17 89°, b13 85°,
     n25D 1.476; semicarbazone m. 197-8°; 2,4-dinitrophenylhydrazone
      (two isomers) m. 139° and 134°; cyanohydrin b1.5
     110-12°. The residue from the distillation was extracted with hot aqueous HCl.
     On cooling, trans-cyclopentane-1-carboxylic-2-(\beta-propionic
     acid), m. 100°, precipitated Catalytic hydrogenation of II with
     Raney Ni at 85 atmospheric and 100° 2 hrs. gave cis
      -bicyclo[3.3.0]octan-2-ol (IV), b13 95°, n25D 1.4868, d2525 1.026,
     in 91% yield. Bromination of IV with PBr3 at 0° gave 63% 2-bromo-
     cis-bicyclo[3.3.0]octane, b13 86°, n21D 1.5079, d2525
     1.252. 2-Cyano-cis-bicyclo[3.3.0]octan-2-ol (15.1 g.) in 24 g.
     pyridine and 30 cc. dry ether treated with 18 g. thionyl
     chloride, the mixture refluxed with stirring 6 hrs., acidified with
     HCl, and extracted with ether yielded 89% 2-cyanobicyclo [3.3.0]octene (V),
     b15 108-10°, n22D 1.4994, d2525 0.9980. V (10 g.) was treated 48
     hrs. with 120 cc. 10% aqueous KOH, the solution washed with ether, acidified,
and
     extracted with ether to obtain bicyclo[3.3.0]octene-2-carboxylic acid
     (VI), b1 120°; amide m. 142°. Hydrogenation of VI in HOAc
     using Adams catalyst at room temperature and pressure gave
bicyclo[3.3.0]octane-
     cis-2-carboxylic acid (VII), b2 120°; amide m.
     160°; methyl ester b13 104-5°, n17.5D 1.4688, d2121 1.027.
     A solution of 1 g. methyl bicyclo[3.3.0]octane-cis-2-carboxylate in
     10 cc. 10% NaOMe was refluxed 8 hrs., diluted with 10 cc. H2O, refluxed a
     further 2 hrs., the MeOH evaporated, the mixture washed with ether, acidified,
     and extracted with ether to obtain bicyclo[3.3.0]octane-2-trans
     -carboxylic acid (VIII), b0.3 110°; amide m. 180°;
     anilide m. 113°. VII was also epimerized by heating with
     thionyl chloride in benzene. Na2CO3 (5N) was added
     dropwise with stirring to 5 g. H2NOH.HCl and 6.2 g. II in 20-30 cc. H2O
     until the solution was neutral to bromphenol blue. Extraction with ether
yielded
     cis-bicyclo[3.3.0]octan-2-one oxime, b13 112°, m.
     59-60°. Hydrogenation of the oxime with Raney Ni at
     70-80°/110 atmospheric 3 hrs. gave 2-amino-cis
     -bicyclo[3.3.0]octane, b17 79-80°. The benzoyl derivative of the
     amine was separated into 2 isomers, m. 125° and 128°.
     NaNO3.H2O (0.2 g.) was added slowly to 4 cc. concentrated H2SO4, 10 cc. CHCl3,
     and 0.31 g. VII with stirring below 40°. After 45 min. the mixture
     was diluted with H2O, the CHCl3 separated, and the mixture extracted with
     yield cis-2-aminobicyclo[3.3.0]octane; benzoyl derivative m.
     125°. Similarly, VIII gave trans-2-
     aminobicyclo[3.3.0]octane; benzoyl derivative m. 128°.
     ANSWER 20 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
Ц8
     1961:99600 CAPLUS
ΑN
     55:99600
```

10614266

- TI Preparation of aminated sclareols
- AU Lazur'evskii, G. V.; Popa, D. P.
- Voprosy. Khim. Terpenov. i Terpenoidov, Akad. Nauk Litovsk. S.S.R., Trudy Vsesoyuz. Soveshchaniya Vil'nyus (1960), Volume Date 1959 89-92
- DT Journal

AB

- LA Unavailable
 - The intention was to prepare quaternary salts containing a radical with 20 carbon atoms and observe their bactericidal activity. 8,15-Di-chlorosclarene (I) and 8,13-dichlorosclarane are obtained by treating sclareol and dihydrosclareol, resp., with HCl. I with Me2NH gives 15-dimethylamino- $\Delta 8$, 13-sclarodiene (II). Under mild conditions, I and Me2NH give 8-chloro-15-dimethylaminosclarene, which on heating loses HCl to form II. Reaction of I with EtNH2 gives 15-ethylaminosclarodiene (III) or, at room temperature, 8-chloro-15-ethylaminosclarene. II or III with Etl or MeI, resp., give the quaternary ammonium salts. of the same composition but of different m.p., suggesting cis-trans isomerism. II (for subsequent quaterization) can also be obtained by treating with Me2NH the monohalo compound (15-chloro- $\Delta 8$,13-sclarodiene) contained in the mother liquor after the separation of I. The compds. described possess the ability to inhibit the fermentation of grape juice. Under similar conditions, 8,13-dichlorosclarane does not react with the amines. Under more severe conditions, a splitting takes place with this compound with the formation of hydrocarbons (sclarenes). This is explained by spatial hindrance at the chlorine atom on C-8, as a result of which, replacement by an amino group by a SN2 mechanism becomes unlikely. The chlorine on C-13 is blocked by the methyl group. N-Diterpeno-substituted piperazines are synthesized to test their anthelmintic properties. I with diethanolamine gives 15-(β -hydroxyethylamino)- $\Delta 8$,13sclarodiene, which (with thionyl chloride) gives the $\mbox{bis}(\beta\mbox{-chloroethylamino})$ analog (IV). This may possess anti-cancer properties. Condensation of IV with EtNH2 gives the N-sclarodienyl-N'ethylpiperazine. NH3 and IV give N-mono- and N,N'disclarodienylpiperazines, resp., which were characterized as the bases and hydrochlorides (no data given). Work on the synthesis of diterpenic acid esters with N-alkylethanolamines has been started to provide analogs of natural diterpenic alkaloids

FILE COVERS 1907 - 2 Sep 2004 VOL 141 ISS 10 FILE LAST UPDATED: 1 Sep 2004 (20040901/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 19

REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 12:29:43 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 7139 TO ITERATE

14.0% PROCESSED 1000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

18 SEA SSS SAM L9

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:
PROJECTED ANSWERS:

137716 TO 147844 1890 TO 3250

L12 52 L11

=> s 19 full

L11

REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 12:29:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 143644 TO ITERATE

100.0% PROCESSED 143644 ITERATIONS

1410 ANSWERS

18 ANSWERS

SEARCH TIME: 00.00.01

L13 1410 SEA SSS FUL L9

L14 2911 L13

=> s l14 and thionyl chloride 13312 THIONYL

999479 CHLORIDE

12511 THIONYL CHLORIDE

(THIONYL (W) CHLORIDE)

L15 24 L14 AND THIONYL CHLORIDE

Med

```
=> d 1-24 bib abs 115
L15 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
     2004:41431 CAPLUS
AN
DN
     140:94292
    Process for preparing nateglinide and its intermediates
ΤI
    Yahalomi, Ronit; Shapiro, Evgeny; Dolitzky, Ben-zion; Gozlan, Yigael
IN
    Teva Pharmaceutical Industries Ltd., Israel; Teva Pharmaceuticals Usa,
PΑ
SO
     PCT Int. Appl., 31 pp.
    CODEN: PIXXD2
TT
    Patent
    English
LA
FAN.CNT 3
    PATENT NO.
                       KIND
                               DATE
                                         APPLICATION NO.
                                                                DATE
                        ----
                                          -----
                               _____
                                                                 -----
                               20040115 WO 2003-US321238 20030703
    WO 2004005240
                        A1
PΙ
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
            PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
            TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY,
            KG, KZ, MD, RU
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
            CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
            NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
            GW, ML, MR, NE, SN, TD, TG
    US 2004116526
                               20040617
                                          US 2003-623237
                        A1
                                                                 20030718
PRAI US 2002-393495P
                        P
                               20020703
                        P
    US 2002-396904P
                               20020718
    US 2002-413622P
                        P
                               20020925
    US 2002-414199P
                        P
                               20020926
    US 2002-423750P
                        P
                               20021105
    US 2002-432093P
                        P
                             20021210
    US 2002-432962P
                        P
                               20021212
    US 2003-442109P
                         Ρ
                               20030123
    US 2003-449791P
                        P
                               20030224
    US 2003-479016P
                        Р
                               20030616
OS
    CASREACT 140:94292
    A process for the preparation of nateglinide involves converting
AΒ
    trans-4-isopropylcyclohexanecarboxylic acid into the acid chloride by
    reaction with thionyl chloride in the presence of an
    organic amide and acylation of a suitable salt of D-phenylalanine with the
     acid chloride in a single or two phase system or in water free of a
     co-solvent.
RE.CNT 6
             THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
    ANSWER 2 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
L15
```

- AN 2003:789490 CAPLUS
- DN 140:17060
- TI Facile Synthesis of Polyamide Dendrimers from Unprotected AB2 Building Blocks
- AU Washio, Isao; Shibasaki, Yuji; Ueda, Mitsuru
- CS Department of Organic and Polymeric Materials, Graduate School of Science and Engineering, Tokyo Institute of Technology, Meguro, Tokyo, 152-8552, Japan
- SO Organic Letters (2003), 5(22), 4159-4161 CODEN: ORLEF7; ISSN: 1523-7060
- PB American Chemical Society
- DT Journal

MAB AB

English

A fast, inexpensive, and highly efficient synthesis of aromatic polyamide dendrimers without the need for protection and deprotection steps has been developed. Dendrons and third-generation polyamide dendrimers were easily prepared by a convergent approach involving activation of a focal point with thionyl chloride, followed by condensation with unprotected AB2 building blocks.

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L15 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
```

AN 2002:290811 CAPLUS

DN 136:310332

TI Poly(aryl ether ketones) bearing alkylated side chains

IN Cassidy, Patrick E.; Fitch, John W., III; Gronewald, Scott D.; St. Clair, Anne K.; Stoakley, Diane M.

PA The United States of America as Represented by the Administrator of the National Aeronautics and Space Administration, USA

SO U.S., 5 pp. CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6372877	B1	20020416	US 2000-585456	20000601
	_			

PRAI US 1999-136926P P 19990601

PRAI US 1999-136926 AB This invention

This invention relates generally to poly(aryl ether ketones) bearing alkylated side chains. It relates particularly to soluble, thermally stable, low dielec. poly(aryl ether ketones) with alkylated side chains and especially to films and coatings thereof. These poly(aryl ether ketones) have the units of XC(0)XCY2XC(0) and XOXCMERXO (X = 1,4-phenylene; Y = CF3, CH3; R = CnH(2n+1); n = 11-18). Thus, polymerization of 3.647 mmol 2,2-bis(4-hydroxyphenyl)tridecane with 3.647 mmol 2,2-bis[4-(4-fluorobenzoyl)phenyl]hexafluoropropane gave a polyether-polyketone having Tg 109°, inherent viscosity 1.04 dL/g in CHCl3, char yield at 800° of 50% and dielec. constant 2.46.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:804789 CAPLUS

DN 130:154196

TI Shape-Selective Ligation to Dendrimer-Metalloporphyrins

AU Bhyrappa, P.; Vaijayanthimala, G.; Suslick, Kenneth S.

CS Department of Chemistry, University of Illinois at Urbana-Champaign, Urbana, IL, 61801, USA

SO Journal of the American Chemical Society (1999), 121(1), 262-263 CODEN: JACSAT; ISSN: 0002-7863

PB American Chemical Society

DT Journal

LA English

₩.

English
The shape-selective ligation of dendrimer-metalloporphyrins derived from 2,6-di- and 3,5-di-dendron-substituted meso-tetraphenylporphinatozinc(II) complexes were studied after preparation and characterization of the complexes. Polyphenyl ester dendrimers (G1 and G2) and an amide dendrimer (G1A) were synthesized by convergent approach; the ester dendrimers, G1 and G2, were appended at all eight m-Ph positions of ZnT(3',5'-DHP)P, and amide dendrimer, G1A, at all eight of o-Ph positions of the ZnT(2',6'-DHP)P using a DCC/DPTS [dicyclohexylcarbodiimide/4-(dimethylamino)pyridinium 4-toluenesulfonate] coupling reaction. The shape selectivity f the binding sites of the Zn dendrimer-porphyrins was probed via axial ligation

of various N bases of different shapes and sizes in toluene (Zn porphyrins were chosen because they generally bind only a single axial ligand). On ligation of bases, the visible absorption spectra of Zn dendrimer-porphyrins were red-shifted and showed an increase in the extinction coefficient of both the Soret (B) and visible (Q) bands, just as with ZnTPP. The increase in binding is primarily due to attractive interactions between the ligand and the aromatic dendrons, since the increase in Keq is more pronounced for the pyridines than for simple alkylamines.

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L15 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1992:173984 CAPLUS
- DN 116:173984
- TI Synthesis of the fungicides 1-[3-(p-tert-butylphenyl)-2methylpropyl]thiolanium perchlorate and 1-[3-(p-tert-butylphenyl)-2methylpropyl]thianium perchlorate
- AU Wilkie, John S.; Winzenberg, Kevin N.
- CS Div. Chem. Polym., CSIRO, Clayton, 3168, Australia
- SO Australian Journal of Chemistry (1992), 45(2), 457-61 CODEN: AJCHAS; ISSN: 0004-9425
- DT Journal
- LA English
- GΙ

$$\text{Me}_{3}\text{C}$$
 Clo_{4} Clo_{4}



AB Reaction of 4-Me3CC6H4CH2CHMeCH2X [X = S(CH2)4OH, S(CH2)5OH], each prepared from p-tert-butylbenzoic acid, with thionyl chloride followed by treatment with silver perchlorate afforded thiolanium and thianium perchlorates I (n = 1, 2), resp. I were screened for fungicidal activity.

- L15 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1992:151670 CAPLUS
- DN 116:151670
- TI An improved method for the synthesis of 5-aryl-3-methyl-2-methylimino-1,3,4-oxadiazoles
- AU Kane, John M.; Staeger, Michael A.
- CS Marion Merrell Dow Res. Inst., Cincinnati, OH, 45215, USA
- SO Synthetic Communications (1992), 22(1), 1-11
 - CODEN: SYNCAV; ISSN: 0039-7911
- DT Journal
- LA English
- OS CASREACT 116:151670

GI

WO 9002113

W: AU, JP, KR, US

A1

19900308

```
Title compds I (R = substituted Ph) were prepared in 54-81% yields by the
AΒ
     mercuric oxide-induced cyclization of 1-aroyl-2,4-
     dimethylthiosemicarbazides RCONHNMeC(:S)NHMe.
    ANSWER 7 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
L15
     1992:128288 CAPLUS
AN
DN
     116:128288
     Synthetic methods and reactions. 168. Ring tert-butylation of
ΤI
     benzophenones and benzaldehyde with tert-butyllithium and thionyl
     chloride
     Olah, George A.; Wu, An Hsiang; Farooq, Omar
Ν
     Donald P. and Katherine B. Loker Hydrocarbon Res. Inst., Univ. South.
CS
     California, Los Angeles, CA, 90089-1661, USA
     Synthesis (1991), (12), 1179-82
SO
     CODEN: SYNTBF; ISSN: 0039-7881
DT
     Journal
     English
LΑ
OS
     CASREACT 116:128288
     One-flask ring tert-butylation of benzophenones and benzaldehyde with {\cal M}_{\sim}
AB
     tert-butyllithium and thionyl chloride, to give, e.g.,
     BzC6H4CMe3-p, is reported. The scope of the reaction and the suggested
    mechanism are discussed.
L15 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
     1990:515990 CAPLUS
AN
DN
     113:115990
     Copolyazomethines containing hexafluoroisopropylidene units
ΤI
     Wada, Keiichiro; Hager, William S.; Neef, Charles J.; Brewer, Keith W.
AU
     Cassidy, Patrick E.
     Dep. Chem., Southwest Texas State Univ., San Marcos, TX, 78666, USA
CS
     Polymer Preprints (American Chemical Society, Division of Polymer
SO
     Chemistry) (1990), 31(1), 350-1
     CODEN: ACPPAY; ISSN: 0032-3934
DT
     Journal
     English
LΑ
     Azomethine group-containing polyesters prepared from bisphenols [prepared from
AB
     4,4'-diaminodiphenyl ether and p-hydroxybenzaldehyde (I) or from
     2,2-bis[4-(4-aminophenoxy)phenyl]hexafluoropropane and I] and
     2,2-bis(4-carboxyphenyl)hexafluoropropane in presence of SOC12 or
     2,2-bis(4-chloroformylphenyl)propane were soluble in CHCl3 and stable at
     402-442° in air and at 454-474° in N.
L15 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
     1990:436398 CAPLUS
AN
     113:36398
DN
     Oxime derivatives and herbicides containing the same as an active
TI
     ingredient
     Azuma, Shizuo; Nakaqawa, Koji; Hiramatsu, Toshiyuki; Ichikawa, Yataro
IN
PA
     Teijin Ltd., Japan
     PCT Int. Appl., 148 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     Japanese
FAN.CNT 2
                                           APPLICATION NO.
     PATENT NO.
                        KIND
                                DATE
                                                                   DATE
     ______
                         _ - - -
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                                            ------
                         A1 19900308
ΡI
     WO 9001874
                                            WO 1989-JP864
                                                                   19890823
         W: AU, BG, DK, FI, HU, JP, KR, NO, RO, SU, US
         RW: BE, CH, DE, FR, GB, IT, NL, SE
```

WO 1988-JP837

19880824

		RW:	CH,	DE,	FR,	GB						
	ΑU	8940	752			A1	1990	0323	AU	1989-	40752	19890823
	ΑU	6190	38			B2	1992	0116				
	ΕP	4334	51			A1	1991	0626	EP	1989-	909629	19890823
		R:	BE,	CH,	DE,	FR,	GB, IT,	LI,	NL, SI	Ξ		
	JP	0450	0074			T2	1992	0109	JP	1989-	509021	19890823
	z_{A}	9001	158			Α	1990	1128	z_{A}	1990-	1158	19900215
PRAI	WO	1988	-JP8	37			1988	0824				
	JP	1989	-300	02			1989	0210				
	JP	1989	-130	002			1989	0210				
	WO	1989	-JP8	64			1989	0823				
os	MAF	RPAT :	113:	3639	3							
GI												

$$\begin{array}{c|c}
Y \\
CR^1 = NOQR^2 \\
OR^3
\end{array}$$

Oxime derivs. I (X, Y, Z, R1, R2, R3 and Q are defined) showed excellent herbicidal effect against broad- and narrow-leaved weeds and had quick acting herbicidal activity. Preparation of these compds. by 2 different schemes is described. Thus, 3-(2-chloro-4-trifluoromethylphenoxy)phenol in CH2Cl2 was treated with TiCl4 then by dichloromethyl Me ether, and the product (2-hydroxy-4-(2-chloro-4-trifluoromethylphenoxybenzaldehyde) was refluxed with EtI, K2CO3 and MeEt ketone to give 2-ethoxy-4-(2-chloro-4-trifluoromethylphenoxy)benzaldehyde which was treated with NH2OH.HCl to give 2-ethoxy-4-(2-chloro-4-trifluoromethylphenyoxy)benzaldehyde oxime (I, R1 = R2 = H; R3 = Et; X = CF3; Y = Cl; Z = CH:) (II). Formulations of II at 0.5 kg/h were 100% effective against Abutilon theophrosti. I (R1 = R2 = H; R3 = CH(Me)CO2Me; X = CF3; Y = Cl; Z = -CH:) was 100% effective against Chenopodium album centrorubrum, Aranthus mangostanus, Astragalus sinicus, A. theophrosti, Solanum nigrum, and Xanthium strumarium.

Ι

- L15 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1989:534844 CAPLUS
- DN 111:134844
- TI Copoly(imidine amides)
- AU Cassidy, Patrick E.; Farley, James M.; Mores, Maryanne
- CS Dep. Chem., Southwest Texas State Univ., San Marcos, TX, 78666, USA
- SO Polymeric Materials Science and Engineering (1989), 60, 299-303 CODEN: PMSEDG; ISSN: 0743-0515
- DT Journal
- LA English
- AB Polycondensation of 3,5-dibenzylidenepyromellitimide with 4,4'-oxydianiline or m-xylylenediamine and with 2,2-bis(4-chloroformylphenyl)hexafluoropropane or 2,2-bis(4-chloroformylphenyl)propane gave 4 polyimidine-polyamides in high yields. Tough, transparent films stable to 400-515° (in N2) could be cast from the polymer solns. All of the copolymers were soluble in m-crasol and polar aprotic solvents.
- L15 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1989:478697 CAPLUS
- DN 111:78697
- TI Polymers derived from hexafluoroacetone: 12F-poly(ether ketone)
- AU Tullos, Gordon L.; Cassidy, Patrick E.; St. Clair, Anne K.

- CS Dep. Chem., Southwest Texas State Univ., San Marcos, TX, 78666, USA
- SO Polymeric Materials Science and Engineering (1989), 60, 310-15 CODEN: PMSEDG; ISSN: 0743-0515
- DT Journal
- LA English
- AB F-containing polymers prepared by polymerization of 2,2-bis[4-(4-fluorobenzoyl)phenyl]propane (I) with bisphenol AF (II), or by polymerization

of
2,2-bis[4-(4-fluorobenzoyl)phenyl]hexafluoropropane (III) with II or
bisphenol A (IV) had higher glass temps. than I-IV copolymers. II-III
copolymers had mech. properties similar to PEEK, and, unlike the latter,
was optically transparent at 400-500 nm, soluble in common organic solvents,

and

formed films upon casting from solution

- L15 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1986:109513 CAPLUS
- DN 104:109513
- TI Syntheses and chemical properties of novel 1,3-oxathiolan-5-one derivatives
- AU Ogawa, Kazuo; Yamada, Shozo; Terada, Tadafumi; Yamazaki, Tomio; Honna, Takaji
- CS Res. Inst., Taiho Pharm. Co., Ltd., Tokushima, 771-01, Japan
- SO Chemical & Pharmaceutical Bulletin (1985), 33(6), 2256-65 CODEN: CPBTAL; ISSN: 0009-2363
- DT Journal
- LA English
- OS CASREACT 104:109513

GΙ



$$\begin{array}{c|c} \text{Me} & & \text{S} & \text{CHR}^2\text{R}^3 \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\$$

AB Alkylidenearylidene-1,3-oxathiolan-5-ones I (R = 3-methyl-5-isoxazolyl, Ph, p-tolyl, 4-MeOC6H4, 3,4-methylenedioxyphenyl, ClC6H4; R1 = H, Me, Et) and diarylidene-1,3-oxathiolan-5-ones II (R2 = H, Me; R3 = H, Pr, PhCH2, ClC6H4, PhO, 2-naphthyl, cyclohexylmethyl, CH2CH2CH2CO2Me) were synthesized by treating RCH:C(SH)CO2H with (R1CH2CO)2O or by treating 4-MeC6H4CH:C(CO2H)SCOCHR2R3 with SOCl2 in DMF. Basic hydrolysis and methanolysis of I and II in the presence of LiOH easily occurred to give ring-cleaved products. The catalytic hydrogenation of the two olefinic bonds of II in the presence of 10% Pd/C proceeded without ring cleavage to give 1,3-oxathiolan-5-ones II. The oxidation of I and II with m-chloroperbenzoic acid afforded the corresponding 1,3-oxathiolan-5-one S-oxide derivs.

- L15 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1985:5705 CAPLUS
- DN 102:5705

TI ω-(Benzhydrylideneamino)alkanoic acids

IN Kaplan, Jean Pierre

PA Synthelabo S. A. , Fr.

SO Fr. Demande, 13 pp. Addn. to Fr. Demande Appl. No. 81 21559.

CODEN: FRXXBL

DT Patent

LA French

FAN.	CNT 7				
	PATENT NO.		DATE	APPLICATION NO.	DATE
ΡI	FR 2535318		19840504	FR 1982-18193	19821029
	FR 2535318		19850906		
	FR 2516509		19830520	FR 1981-21559	19811118
	FR 2516509		19850726		
		Α		FI 1982-3925	19821116
		Α	19830519	NO 1982-3824	19821116
	BE 895042		19830517	BE 1982-209495	19821117
		Α	19830519	SE 1982-6548	19821117
	DK 8205117	Α	19830519	DK 1982-5117	19821117
	AU 8290645	A1	19830526	AU 1982-90645	19821117
	JP 58092646	A2	19830602	JP 1982-202836	19821117
	GB 2111051	A1	19830629	GB 1982-32766	19821117
	GB 2111051	B2	19850710		
	ES 517428	A 1	19830816	ES 1982-517428	19821117
	ZA 8208470			ZA 1982-8470	19821117
	HU 30787	0	19840328	HU 1982-3686	19821117
	HU 187429	В	19860128	•	
	CH 653011		19851213	CH 1982-6711	19821117
	IL 67283	A1	19860429	IL 1982-67283	19821117
	CA 1204773		19860520	CA 1982-415782	19821117
		Α		NL 1982-4462	19821118
	US 4588748	Α	19860513	US 1984-654068	19840925
PRAI	FR 1981-21559		19811118		
	IL 1976-50019		19760712		
	US 1982-442020		19821116		
os	CASREACT 102:5705				
GI					

$$R^2$$
 $C=N(CH_2)_nCOR^3$
 R^1

AB Acids and derivs. I [R = H, Me; R1 = OMe, alkyl; R2 = halo, Me; n = 1, 2, 3, 4; R3 = NH2, OH, OM (M = alkali metal, 1/2 alkaline earth metal)], useful as antidepressants and anticonvulsants (no data), were prepared GABA was treated with 5-chloro-2-hydroxy-3-methyl-4'-ethylbenzophenone and NaOEt in EtOH to give I (R = H, R1 = 4-Et, R2 = 5-Cl, n = 3, R3 = OH).

L15 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

Ι

AN 1984:138901 CAPLUS

DN 100:138901

TI Dipole-stabilized carbanions: the α' lithiation of piperidides

AU Beak, Peter; Zajdel, William J.

CS Dep. Chem., Univ. Illinois, Urbana, IL, 61801, USA

SO Journal of the American Chemical Society (1984), 106(4), 1010-18

CODEN: JACSAT; ISSN: 0002-7863

DT Journal

LA English

OS CASREACT 100:138901

GΙ

AB The α' lithiation and subsequent electrophilic substitution of I (R = H, Me3C; R1 = H) gave I [R = same, R1 = e.g., D, PhCH(OH)], which cannot be cleaved. Similar reactions of Et3CCONEt2 and II (R2 = H, Ph; R3 = H) gave products which can be cleaved to the substituted amines. sequence thus provides the $(\alpha$ -lithioalkyl)alkylamine synthetic equivalent from secondary amines. The addition of α' -lithiated II (R2 = Ph, R3 = H) to aldehydes provides equatorial substitution with erythro and threo isomers of the amido alc. II [R2 = Ph, R3 = PhCH(OH)] produced in a 1:1 ratio. Exclusive conversion to an equatorial threo amino ester III is observed on treatment with strong acid. All four possible equatorial-axial and erythro-threo isomers of the amino alc. IV can be obtained by appropriate manipulations. The formations of the equatorially-substituted products from I (R = Me3C, R1 = H) and II (R2 = Ph, R3 = H) and of syn products from V consistent with oxygen-lithium complexation and dipole stabilization as important factors in α' lithiation.

L15 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1984:22210 CAPLUS

DN 100:22210

TI Kinetic effect of a hydrogen bond in the reaction of substituted benzoic acids with thionyl chloride

AU Vulakh, E. L.; Nemleva, S. A.; Ivanova, V. M.; Kaminskaya, E. G.; Gitis, S. S.

- CS Vses. Nauchno-Issled. Proektn. Inst. Monomer., Tula, USSR
- Zhurnal Organicheskoi Khimii (1983), 19(9), 1898-906 SO CODEN: ZORKAE; ISSN: 0514-7492
- DT Journal
- Russian LΑ
- AΒ A kinetic and IR spectral study of the chlorination of RC6H4CO2H (I; R = 3-NO2, H, 3-Me, 4-Me, 4-Me2CH) by SOC12 indicated that the dimeric association of I is the active substrate.
- L15 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
- AN1983:504532 CAPLUS
- DN 99:104532
- ΤI Kinetic effect of hydrogen bonding in the chlorodehydroxylation of carboxylic acids by thionyl chloride
- ΑU Vulakh, E. L.; Nemleva, S. A.; Ivanova, V. M.; Kaminskaya, E. G.; Gitis,
- CS Vses. Nauchno-Issled. Proektn. Inst. Monomerov, Tula, USSR
- Doklady Akademii Nauk SSSR (1983), 270(2), 333-6 [Chem.] SO CODEN: DANKAS; ISSN: 0002-3264
- DTJournal
- LΑ Russian
- IR bands were examined for free and H-bonded RC6H4CO2H (I; R = 3-Np2, /H, AB 4-Me, 4-Me2CH), both individually and in mixed pairs, and rate coffsts/. were determined for the chlorodehyroxylation of these individual and mixed I.

 H bonding increased the reactivity of I. In mixed association the reactivity of the 2 partners tended to become equalized.
- L15 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
- 1983:487849 CAPLUS AN
- DN99:87849
- TI1.4-Naphthoquinones and their veterinary formulations
- Hudson, Alan Thomas; Randall, Anthony Winchester ΤN
- PΑ Wellcome Foundation Ltd., UK
- SO Eur. Pat. Appl., 27 pp. CODEN: EPXXDW
- DΤ Patent
- English T.A
- FAN. CNT 2

FAN.CN					
P <i>I</i>	ATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	P 77550 P 77550	A2 A3	19830427 19830928	EP 1982-109568	19821015
	P 77550		19850710		
	R: BE, CH, DE,			, SE	
US	S 4485116	Α	19841127	US 1982-433866	19821013
F	I 8203531	Α	19830417	FI 1982-3531	19821015
F)	I 78677	В	19890531		
F]	I 78677	C	19890911		
DF	K 8204597	Α	19830417	DK 1982-4597	19821015
DF	K 168567	B1	19940425		
	B 2111047	A1	19830629	GB 1982-29502	19821015
	B 2111047	B2	19851023		
H	J 29139	0	19840130	HU 1982-3282	19821015
	J 196354	В	19881128		
	P 59020241	A2	19840201	JP 1982-181200	19821015
	P 03020376	B4	19910319		
	A 1205082	A1	19860527	CA 1982-413564	19821015
SU	J 1324585	A3	19870715	SU 1982-3503935	19821015
z_{I}	A 8307581	Α	19840627	ZA 1983-7581	19831012
	I 8602616	Α	19860618	FI 1986-2616	19860618
	I 78678	В	19890531		
FI	T 78678	C	19890911		

PRA]	GB	1981-3	31206		19811016
	GB	1982-2	20680		19820716
	FI	1982-3	3531		19821015
	US	1983-5	523613		19830817
os	CAS	SREACT	99:87849	1	
GI					

$$\begin{array}{c} O \\ CH_2 \\ OH \end{array}$$

- AB (Cyclohexylmethyl)naphthoquinones I (R=C1-10 alkyl) were prepared, and they showed protozoacidal activity with respect to theileriosis.
 4-tert-Butylcyclohexaneacetic acid reacted with 2-chloro-1,4-naphthoquinone, and the 2-cyclohexylmethyl-3-chloro-1,4-naphthoquinone intermediate was heated with KOH to give I (R=Me).
- L15 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1981:191544 CAPLUS
- DN 94:191544
- TI Diastereoselection in the decarbalkoxylation reaction. Effect of nonbonded ring oxygens in the reactions of geminal diesters

Ι

- AU Banks, Harold D.
- CS Dep. chem., Univ. Bridgeport, Bridgeport, CT, 06602, USA
- SO Journal of Organic Chemistry (1981), 46(8), 1743-5 CODEN: JOCEAH; ISSN: 0022-3263
- DT Journal
- LA English
- OS CASREACT 94:191544

GT

- AB The effect of nonbonded ring O on stereoselectivity in the decarbalkoxylation (LiCl in wet DMSO) of geminal diesters was studied. While 1,3-dioxane derivative I (R = CHMe2, X = O) produced predominantly the cis monoester, cyclohexane derivative I (R = CMe3, X = CH2) gave virtually no diastereoselection. Bicyclo[2.2.1]heptane diester II gave essentially the same result as its 7-oxa derivative
- L15 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1979:72016 CAPLUS
- DN 90:72016
- TI Labeling of a new fungicide with tritium and carbon-14; synthesis of S-n-butyl S-p-tert-butylbenzyl-14C N-3-pyridyldithiocarbonimidate

(Denmert)

- AU Yoshitake, Akira; Kamada, Takeshi; Nakatsuka, Iwao; Miyake, Kunio
- CS Inst. Biol. Sci., Sumitomo Chem. Co., Takarazuka, Japan
- SO Radioisotopes (1978), 27(6), 324-5 CODEN: RAISAB; ISSN: 0033-8303
- DT Journal
- LA English
- AB Denmert labeled with 14C at the α position of the benzyl radical was obtained in 63% yield by sequential carboxylation of p-tert-BuC6H4MgBr with 14CO2, reduction with LiAlH4, chlorination with SOCl2, and condensation with S-Bu N-3-pyridyldithiocarbamate.
- L15 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1977:406897 CAPLUS
- DN 87:6897
- TI N-(Benzimidazol-2-yl)arylcarboxamides as ultraviolet light absorpers
- IN Grier, Nathaniel
- PA Merck and Co., Inc., USA
- SO U.S., 12 pp. CODEN: USXXAM
- DT Patent
- LA English
- FAN.CNT 2

FAN CNT 2							
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
			/				
PI US 4011236	Α	19770308	US 1975-580847	19750527			
US 3907700	Α	19750923	US 1973-320231	19730102			
PRAI US 1968-758601		19680909					
US 1973-320231		19730102					
GT							

- N-(Benzimidazol-2-yl)arylcarboxamides (I, R1 = aromatic radical with 1-3 nuclei, ring-substituted aromatic radical, aromatic heterocyclic radical; R2 = H, Me, aliphatic or aromatic acyl) were prepared by condensing an aminobenzimidazole with an aromatic acid halide. These compns. are useful as UV light absorbers in plastics, fibers, sun tan lotions, etc. Thus, p-tert-butylbenzoic acid [98-73-7] was chlorinated with thionyl chloride to give p-tert-butylbenzoyl chloride [1710-98-1], which was condensed with 2-aminobenzimidazole [934-32-7] to give N-(benzimidazol-2-yl)-4-tert-butylbenzamide (I, R1 = 4-tert-butylphenyl, R2 = H) [25737-69-3].
- L15 ANSWER 21 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

Ι

- AN 1975:513321 CAPLUS
- DN 83:113321
- TI Reaction of substituted benzoic acids with thionyl chloride
- AU Vulakh, E. L.; Freidlin, E. G.; Gitis, S. S.
- CS Vses. Nauchno-Issled. Proektn. Inst. Monomerov, Tula, USSR
- SO Zhurnal Organicheskoi Khimii (1975), 11(7), 1481-6 CODEN: ZORKAE; ISSN: 0514-7492
- DT Journal

- LA Russian
- AB The kinetics, including activation parameters, of the reaction of 17 substituted benzoic acids with SOCl2 in SOCl2 as solvent were determined at 40-60°; there was an isokinetic relationship with an isokinetic temperature 365°K. The substituent effect on the rate constant correlated with the Yukawa-Tsuno equation. There was a primary deuterium kinetic isotope effect. The mechanism was discussed.
- L15 ANSWER 22 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1975:443012 CAPLUS
- DN 83:43012
- TI Benzylamines
- PA Merck and Co., Inc., USA
- SO Austrian, 17 pp. CODEN: AUXXAK
- DT Patent
- LA German
- FAN.CNT 1

				~ /
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI AT 317881	В	19740925	AT 1971-861	19710202
PRAI AT 1971-861		19710202		
	_		,	

- GI For diagram(s), see printed CA Issue.
- AB The benzylamines I (R, R1, and R2 = H, Me; substatuent position 2 or 4) were prepared by the fluorination of PhZC6H4CR2NR1R2 [II; R, R1, and R2 as above; Z = -CCl2Cl2-, -CCl:CH-, -CF:CF-, -CH(CF2H)-, -CH2CH2-] in liquid HF in the presence of HgF2, AgF, or Pb oxide. Various methods for the preparation of II were described.
- L15 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1974:519445 CAPLUS
- DN 81:119445
- TI Hofmann elimination of a tertiary amine salt in the cyclohexane series
- AU Sicsic, Sames; Welvart, Zoltan
- CS Groupe Rech., CNRS, Thiais, Fr.
- SO Bulletin de la Societe Chimique de France (1974), 7-8, Pt. 2, 1477-8 CODEN: BSCFAS; ISSN: 0037-8968
- DT Journal
- LA French
- GI For diagram(s), see printed CA Issue.
- AB The axial dimethylammonium compound (I) underwent Hofmann degradation while the equatorial epimer (II) did not. A mechanism was discussed.
- L15 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 1973:536852 CAPLUS
- DN 79:136852
- TI N, N'-Alkylenebis (4-substituted benzamides)
- IN Lesher, George Y.
- PA Sterling Drug Inc.
- SO U.S., 6 pp.
 - CODEN: USXXAM
- DT Patent
- LA English
- FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	US 3761509	A	19730925	US 1971-119028	19710225
PRAT	US 1968-756403		19680830		

- GI For diagram(s), see printed CA Issue.
- The title compds. (I; R = C1-6 alkyl, CF3, CCl3, SCF3, SCCl3, alkylamino, dialkylamino; R1 = H, C1-6 alkyl; n = 7-10) having adrenal hypertrophy at 50-100 mg/kg-day and antifertility activity at 100-400 mg/kg-day in rats

were prepared Thus, 4-EtC6H4COCl from 30 g acid was treated with 11.7 g 1,7-heptanediamine in 10% aqueous KOH and ClCH2CH2Cl to give 25.7 g I (R = Et, R1 = H, n = 7). Similarly prepared were 28 other I.

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